Jon Stinzel

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Objective Seeking a Senior Level Software Engineering Position

Experience

Software Engineer/ Technical Lead — Northrop Grumman – Mission Systems — Jun05 - Present

- IDARMS Project: Acting as Technical Lead Engineer for a team of 4 software engineers for the project. The Integrated Data Annotation and Mapping System (IDARMS) provides in-flight support of Open Skies Treaty observation missions for the United States government. The IDARMS is comprised of two distinct subsystems, one utilizing Java/Windows/x86, the other utilizing C/VxWorks/PowerPC. Job duties include organizing and conducting peer reviews, as well as design, implementation and testing on both the aforementioned platforms. Responsible for content and review of software design and testing documentation. Developed flight hardware simulation tools to support multi-hour IT&V of IDARMS. Our development process is currently certified at CMMI level 3.

Software Engineer — NASA/JPL contractor — Mar00 – Jun05
Northrop Grumman – IT — Sep04 – Jun05
Modern Technologies Corp. — Mar00 – Sep04

- Network Simplification Project: Responsible for the design, development, implementation and testing of the exciter control software for NASA's Deep Space Network (DSN). The exciter generates the uplink carrier signal at DSN antennas enabling commanding, tracking and telemetry functions for the 30+ NASA/ESA spacecraft missions currently being supported. Project utilized C/C++ on Solaris for core functionality with Tcl for offline utilities and test-case scripting. Redesigned exciter control software, replacing legacy shared-memory architecture with OO event-driven architecture. Designed a shared code library to support TCP/IP socket-based communication to exciter/transmitter hardware.
- Beam Wave Guide Upgrade Project: Managed the schedule and budget for the duration of the project. Responsible for the design, development, implementation and testing software (C++) for the control of the 20kW dual-band transmitter deployed to Beam Wave Guide (BWG) antennas present in the DSN.
- Ka-Band Uplink Project: Managed the schedule and budget for the duration of the project. Responsible for the design, development, implementation and testing of software for the control of the Ka-Band transmitter in support of the Cassini radio science project. Utilized Rational Rose UML to capture the design of the C++ code.

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System Engineer Bristol Babcock 1992 – 2000

- Managed, designed and implemented real-time embedded industrial SCADA (Supervisory Control and Data Acquisition) systems. Extensive experience programming the company manufactured Intel 80x86-based RTU's (Remote Telemetry Units) using their proprietary control language running on a RTOS (Real-Time operating system). Extensive debugging experience including communication protocol analysis. Developed historical database systems using MS Access/Visual Basic. Developed GUI display systems for operator interaction with the provided systems. Actively participated in all phases of the project life-cycle from cost estimation through deployment, testing and maintenance. Involved in numerous turn-key system projects for the natural gas and water distribution industries. Responsible for tracking financial status of projects and reporting to company management.

Education

Spr05 – Spr08	MS Computer Science (Networking Option)	University of Southern California
Jun92	BS Electrical Engineering Magna Cum Laude 3.74 Major GPA	Cal. State Polytechnic Univ., Pomona

Skills Summary

Computer Languages:	C/C++, Java, Tcl, HTML, Visual Basic
OS Platforms:	UNIX (Solaris), VxWorks, MS Windows, OS/2

Other Interests

Competitive cycling, SCUBA diving, camping, music.

Clearance

Currently holding a DoD Secret Clearance.